

| | Type | Hits | Search Text |
|---|------|------|--|
| 1 | BRS | 71 | ("6,635,583" "6,624,064" "6573,030" "6,541397" "6,458,516" "6.423,384" "6,413,852" "6,386,947" "6,380106" "6,358,573" "6,333,255" "6,331,380" "6,323,119" "6,316,347" "6,291,334" "6,235,629" "6,214,730" "6,211065" "6165,890" "6,153,935" "6,151430" "6143,476" "6,140,226" "6,140,224" "6098,568" "6,097,870" "6,080,529" "6,066,577" "6,064,118" "6,057,226" "6,035,803" "6,030,901" "6024,044" "6,008,140" "5,999,293" "5,961,924" "5986,344" "5,949,934" "5,930,439" "5,904,491" "5,900,288" "5,881199" "5,866920" "5,858051" "5,789,320" "5770465" "5,759,913" "5,689,614" "5,567,476" "5465,860" "5,461,003" "5,378,256" "5,366,530" "5333229" "5263111" "5253,319" "5,165,004" "5,125,946" "4,972,799" "4,904,052" "4896,930" "4,856,859" "4,709,986" "4,619,680" "4,578.691" "4,578,097" "4,426,129" "4,425,146" "20030091938" "20020090794" "20020086547" "20020001778" "20010007788") .pn. |
| 2 | BRS | 3 | (10/383839 10/800112 10/799146 10/766724) |
| 3 | BRS | 2 | (10/383839 10/800112 10/799146 10/768724) |
| 4 | BRS | 0 | S3 and (deposit\$4 same (amorph\$5 hardmask\$4 mask\$4) same core\$1) and (photoresist\$4 same hardmask mask\$4) and amorphous\$3 |
| 5 | BRS | 0 | S3 and ((amorph\$5 hardmask\$4 mask\$4) same core\$1) and (photoresist\$4 same hardmask mask\$4) and amorphous\$3 |
| 6 | BRS | 2 | S3 and (amorph\$5 hardmask\$4 mask\$4 photoresist\$4 morphou\$4) |
| 7 | BRS | 11 | (deposit\$4 same amorph\$5 same (hardmask\$4 mask\$4) same core\$1) and (photoresist\$4 same (hardmask mask\$4) same amorphous\$3) |
| 8 | BRS | 154 | (amorph\$5 near3 carbon\$3 near3 (hardmask\$3 mak\$4)) |

| | DBs | Time Stamp | Comments | Error Definition |
|---|---------------------------------------|------------------|----------|------------------|
| 1 | US-PGPUB; USPAT | 2005/07/26 15:26 | | |
| 2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 15:31 | | |
| 3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 16:07 | | |
| 4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 16:47 | | |
| 5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 16:11 | | |
| 6 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 16:47 | | |
| 7 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:06 | | |
| 8 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/27 11:06 | | |

| | Errors | Ref # |
|---|--------|-------|
| 1 | | S1 |
| 2 | | S2 |
| 3 | | S3 |
| 4 | | S4 |
| 5 | | S5 |
| 6 | | S6 |
| 7 | | S7 |
| 8 | | S9 |

| | Type | Hits | Search Text |
|----|------|------|---|
| 9 | BRS | 0 | S8 and S9 |
| 10 | BRS | 0 | S7 and S9 |
| 11 | BRS | 3 | S8 and carbon\$3 |
| 12 | BRS | 3 | S8 not S12 |
| 13 | BRS | 8 | S14 and (clad\$4 same core\$1) and ((etch\$3 remov\$4) same (amorph\$5 hardmask mak\$4)) |
| 14 | BRS | 2 | S15 not S8 |
| 15 | BRS | 6 | S7 and (clad\$4 same core\$1) and ((etch\$3 remov\$4) same (amorph\$5 hardmask mak\$4)) |
| 16 | BRS | 8 | ("20030041624" "6732550" "20040046963" "20030012483" "20030006140" "6311004" "6154582" "5032879").pn. |
| 17 | BRS | 17 | (deposit\$4 same amorph\$5 same (hardmask\$4 mask\$4) same core\$1) and (photoresist\$4 same (hardmask mask\$4 amorphous\$3)) |
| 18 | BRS | 8 | S17 and S14 and (clad\$4 same core\$1) and ((etch\$3 remov\$4) same (amorph\$5 hardmask mak\$4)) |
| 19 | BRS | 8 | S18 and substrat\$4 |
| 20 | BRS | 8 | S18 and substrat\$4 and core\$1 and cladd\$4 |
| 21 | BRS | 8 | S18 and substrat\$4 and core\$1 and cladd\$4 and deposit\$4 |
| 22 | BRS | 2 | "20030041624" |
| 23 | BRS | 1 | S22 and (deposit\$5 form\$4) same (core\$1 clad\$4) same substr\$5 and amorph\$5 |
| 24 | BRS | 2 | S22 and (etch\$4 remov\$4) near12 (mask\$3 amorph\$5) |
| 25 | BRS | 2 | S22 and (etch\$4 remov\$4) near12 (mask\$3 amorph\$5) same cor\$1 |
| 26 | BRS | 2 | S22 and (etch\$4 remov\$4) near12 (mask\$3 amorph\$5 cor\$1) |

| | DBs | Time Stamp | Comments | Error Definition |
|----|---------------------------------------|------------------|----------|------------------|
| 9 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 16:55 | | |
| 10 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 16:56 | | |
| 11 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:00 | | |
| 12 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:00 | | |
| 13 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:19 | | |
| 14 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:08 | | |
| 15 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:14 | | |
| 16 | US-PGPUB; USPAT | 2005/07/26 18:18 | | |
| 17 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/27 13:01 | | |
| 18 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/27 10:32 | | |
| 19 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:27 | | |
| 20 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:28 | | |
| 21 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:44 | | |
| 22 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:44 | | |
| 23 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:59 | | |
| 24 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:53 | | |
| 25 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:55 | | |
| 26 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:58 | | |

| | Errors | Ref # |
|----|--------|-------|
| 9 | | S10 |
| 10 | | S11 |
| 11 | | S12 |
| 12 | | S13 |
| 13 | | S15 |
| 14 | | S16 |
| 15 | | S8 |
| 16 | | S17 |
| 17 | | S14 |
| 18 | | S18 |
| 19 | | S19 |
| 20 | | S20 |
| 21 | | S21 |
| 22 | | S22 |
| 23 | | S23 |
| 24 | | S24 |
| 25 | | S25 |
| 26 | | S26 |

| | Type | Hits | Search Text |
|----|------|------|--|
| 27 | BRS | 8 | S17 and (etch\$4 remov\$4) near12 (mask\$3 amorph\$5 cor\$1) |
| 28 | BRS | 8 | S27 and (deposit\$5 form\$4) same (core\$1 clad\$4) same substr\$5 and amorph\$5 |

| | DBs | Time Stamp | Comments | Error Definition |
|----|---------------------------------------|------------------|----------|------------------|
| 27 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/26 18:58 | | |
| 28 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/27 10:16 | | |

| | Errors | Ref # |
|----|--------|-------|
| 27 | | S27 |
| 28 | | S28 |

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|---|------|-----|------|--|--|---------------------|
| 1 | BRS | L1 | 3 | ("20040046963" "20030041624" "6154582").pn. | US- PGPUB; USPAT | 2005/07/27 10:17 |
| 2 | BRS | L2 | 3 | 1 and (clad\$5 same (silicon dioxide sio\$1 thermal oxide\$1 boron phosphorous, po\$1 p)) and (core same (germanium doped silicon dioxide sio\$1 boron doped silicon dioxide silicon germanium p phosphorous doped silicon dioxide silicon oxynitride silicon nitride silicon and combinations channel\$1)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 12:00 |
| 3 | BRS | L4 | 1 | "20040046963" | US- PGPUB; USPAT | 2005/07/27 10:31 |
| 4 | BRS | L5 | 3 | 1 and (deposit\$4 same amorph\$5 same (hardmask\$4 mask\$4) same core\$1) and (photoresist\$4 same (hardmask mask\$4 amorphous\$3)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 10:32 |
| 5 | BRS | L6 | 1 | 4 and (deposit\$4 same amorph\$5 same (hardmask\$4 mask\$4) same core\$1) and (photoresist\$4 same (hardmask mask\$4 amorphous\$3)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 10:32 |
| 6 | BRS | L7 | 1 | 4 and (clad\$4 same core\$1) and ((etch\$3 remov\$4) same (amorph\$5 hardmask mak\$4)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 10:33 |

| | Comments | Error Definition | Errors |
|---|----------|------------------|--------|
| 1 | | | |
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| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|---|--|---------------------|
| 7 | BRS | L8 | 0 | 7 and (deposit\$5 near12 core\$4 same clad\$4 same substrat\$3) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 10:34 |
| 8 | BRS | L9 | 1 | 7 and (core\$4 same clad\$4 same substrat\$3) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 10:34 |
| 9 | BRS | L10 | 154 | (amorph\$5 near3 carbon\$3 near3 (hardmask\$3 mak\$4)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 15:35 |
| 10 | BRS | L11 | 51 | 10 and (amorph\$5 near7 sili\$5) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 11:06 |
| 11 | BRS | L12 | 27 | 11 and (amorph\$5 near3 carbon\$3 near3 silic\$5) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 11:07 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
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| 10 | | | |
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| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|--------|---|--|---------------------|
| 12 | BRS | L13 | 5 | 11 and (amorph\$5 near3 carbon\$3 near3 silic\$5) same hardmask | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 11:10 |
| 13 | BRS | L14 | 1 | 11 and (wavegui\$4 cladd\$4) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 11:11 |
| 14 | BRS | L15 | 5 | 10 and (wavegui\$4 cladd\$4) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 15:34 |
| 15 | BRS | L16 | 100300 | ((etch\$4 remov\$4) near5 (hardmask\$3 mak\$4)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 15:37 |
| 16 | BRS | L17 | 54 | 10 and 16 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 11:17 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|---|--|---------------------|
| 17 | BRS | L18 | 0 | 17 and (optical\$4 near7 (fiber\$1 wavegui\$4 cladd\$4)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 11:18 |
| 18 | BRS | L19 | 0 | 17 and (optical\$4 near7 (fibre\$1 fiber\$1 wavegui\$4 cladd\$4)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 11:18 |
| 19 | BRS | L20 | 0 | 17 and (optical\$4 same (fibre\$1 fiber\$1 wavegui\$4 cladd\$4)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 11:19 |
| 20 | BRS | L21 | 2 | 17 and ((fibre\$1 fiber\$1 wavegui\$4 cladd\$4)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 11:19 |
| 21 | BRS | L22 | 1 | 4 and 2 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 12:01 |

| | Comments | Error Definition | Errors |
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| 17 | | | |
| 18 | | | |
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| 20 | | | |
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| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|---|--|---------------------|
| 22 | BRS | L23 | 1 | 4 and (refrac\$5 index\$3 indic\$3) same (core\$1 clad\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/27 12:02 |
| 23 | BRS | L24 | 1 | 4 and (refrac\$5 index\$3 indic\$3) same (core\$1 near12 clad\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/27 12:11 |
| 24 | BRS | L25 | 1 | 4 and (clad\$4 near12 (undoped silic\$4 dioxide thermal oxid\$3 silicon dioxide doped boron\$3 phosphor\$4 material\$4 p sio\$3 glass\$2)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/27 12:17 |
| 25 | BRS | L26 | 1 | 4 and (clad\$4 near16 (dop\$4 undop\$4 silic\$4 dioxide thermal oxid\$3 silicon dioxide doped boron\$2 phosphor\$4 material\$4 p sio\$3 glass\$2)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/27 12:25 |
| 26 | BRS | L27 | 1 | 4 and (core\$1 near16 (gr\$4 sio\$2 glass germanium dop\$3 silic\$3 dioxide\$1 germanium boron doped silicon dioxide silicon germanium compositions phosphorous silicon dioxide silicon oxynitride nitride\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/07/27 12:27 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
| 22 | | | |
| 23 | | | |
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| 25 | | | |
| 26 | | | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|---|--|---------------------|
| 27 | BRS | L28 | 1 | 4 and (deposit\$4 photoresis\$5 sacrifi\$5) same (core\$1 amorph\$5 hardmask\$4 mask\$4 core\$1) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 13:03 |
| 28 | BRS | L29 | 1 | 4 and (deposit\$4 photoresis\$5 sacrifi\$5) same (core\$1 amorph\$5 hardmask\$4 mask\$4 core\$1 layer\$11 material\$1) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 13:03 |
| 29 | BRS | L30 | 76 | 10 and ((hydr\$4 near2 carbon\$4) hydrocarbon\$4) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 13:35 |
| 30 | BRS | L31 | 19 | 10 same ((hydr\$4 near2 carbon\$4) hydrocarbon\$4) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 14:03 |
| 31 | BRS | L32 | 11 | 31 and (hardmask (had near3 mask\$4)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 14:12 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
| 27 | | | |
| 28 | | | |
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| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|--|--|---------------------|
| 32 | BRS | L33 | 1 | 4 and (plasm\$3 hyrog\$4 oxigen\$4) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 14:09 |
| 33 | BRS | L34 | 1 | 4 and (plasm\$3 hydrog\$4 oxigen\$4) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 14:10 |
| 34 | BRS | L35 | 0 | 4 and (plasm\$3 same (gas\$5 hydrog\$4 oxigen\$4)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 14:11 |
| 35 | BRS | L36 | 21 | 10 and (plasm\$3 same (gas\$5 near7 (hydrog\$4 oxigen\$4))) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 14:12 |
| 36 | BRS | L37 | 13 | 10 and (plasm\$3 near7 (gas\$5 near7 (hydrog\$4 oxigen\$4))) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 14:12 |

| | Comments | Error Definition | Errors |
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| 32 | | | |
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| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|--|--|---------------------|
| 37 | BRS | L38 | 6 | 37 and (hardmask (had near3 mask\$4)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 14:13 |
| 38 | BRS | L39 | 1 | 38 and (waveg\$5 fiber\$1 fibre\$1) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 14:13 |
| 39 | BRS | L40 | 1 | 15 and (hardmask\$3 hard near4 mask\$3) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 15:35 |
| 40 | BRS | L41 | 83 | (amorph\$5 near3 carbon\$3 near3 (hardmask\$3 hard near4 mask\$3)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 15:36 |
| 41 | BRS | L42 | 82 | (amorph\$5 near1 carbon\$3 near3 (hardmask\$3 (hard near4 mask\$3))) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 15:36 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
| 37 | | | |
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| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|-----------------------|--|---------------------|
| 42 | BRS | L43 | 45 | 16 and 42 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 15:37 |
| 43 | BRS | L44 | 36 | 43 and photoresist\$4 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 15:38 |
| 44 | BRS | L45 | 36 | 44 and layer\$1 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 15:38 |
| 45 | BRS | L46 | 20 | 45 and optical | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/07/27 15:38 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
| 42 | | | |
| 43 | | | |
| 44 | | | |
| 45 | | | |